

Binding Domain Hybrid

Activation Domain Hybrid

Fas



wt (191-319AA)

Sentrin

++



Δ 15 (191-304AA)

++



Δ 23 (191-296AA)

-



(V238N)

-

TNFR1



wt (326-426AA)

++



Δ 14 (326-412AA)

++



Δ 20 (326-406AA)

-

CD40



(216-277AA)

-

FADD/MORT1



(1-208AA)

-

Activation Domain Hybrid

Binding Domain Hybrid

Fas (191-319AA)

Sentrin



(1-101AA)

++



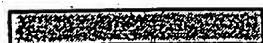
(1-70AA)

-



(1-23AA)

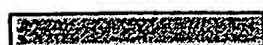
-



(24-97AA)

-

Ubiquitin



(1-76AA)

-

Nedd8



(1-76AA)

-

FIG. 1A

008110-49648460

03434064-011800

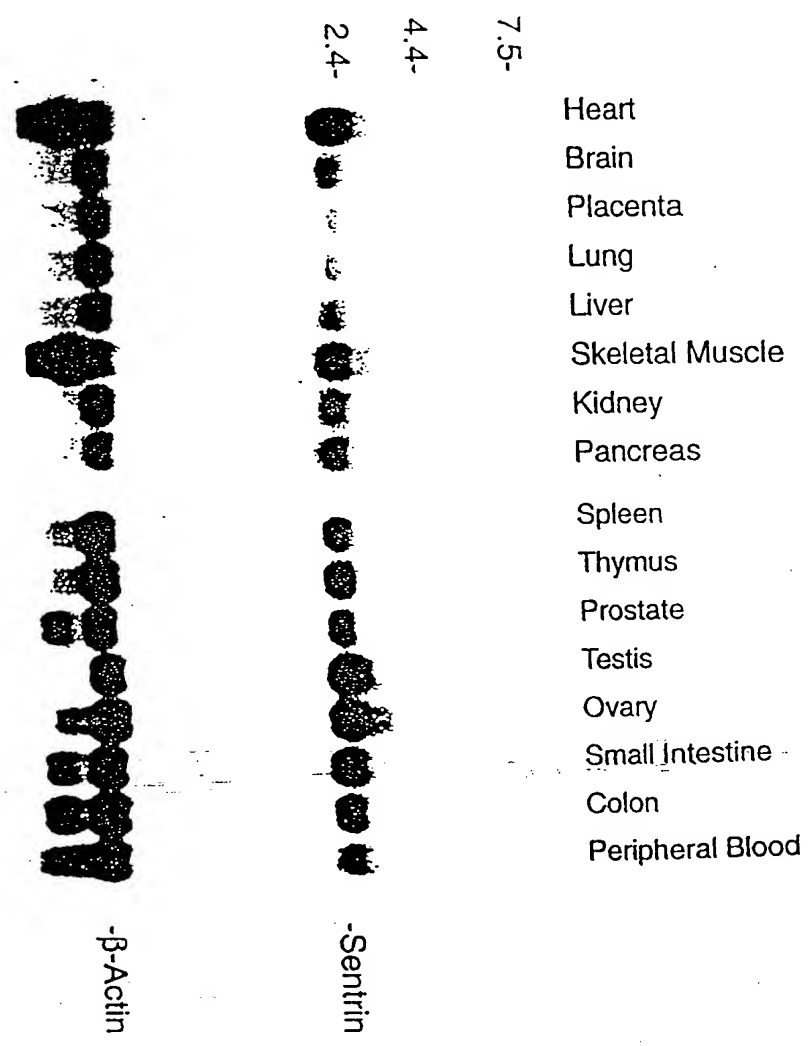


FIG. 1B

A

1	CGAGGCGTAGCGGAAGTTACTGCAGCCGCGGTGTTGTGCTGTCGCGGAAGGGGAAGGATTT	
61	GTAAACCCCGGAGCGAGGTTCTGCTTACCCGAGGCGCTGCTGTGCGGAGACCCCGGGT	
121	GAAGCCACCGTCATCATGTCTGACCAGGAGGCAAAACCTTCAACTGAGGACTTGGGGGAT	
	M S D Q E A K P S T E D L G D	15
181	AAGAAGCAAGGTGAATATATTAATACTCAAAGTCATTGGACAGGATAGCAGTGAGATTAC	
	K K E G E Y I K L K V I G Q D S S E I H	35
241	TTCAAAGTGAAAATGACAACACATCTCAAGAACTCAAAGAATCATACTGTCAAAGACAG	
	F K V K M T T H L K K L K E S Y C Q R Q	55
301	GGTGTTCGAATGAATTCAGTCTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCAT	
	G V P M N S L R F L F E G Q R I A D N H	75
361	ACTCCAAAAGAACTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCAGGAACAAACG	
	T P L E L G M E E E D V I E V Y Q E Q T	95
421	GGGGGTCATTCAACAGTTTAGATATTCTTTTTTATTTTTTTCTTTTCCCTCAATCCTTTT	
	G G H S T V *101	
481	TTATTTTTTAAAAATAGTTCCTTTTGTAATGTGGTGTTCAAAACGGAATTGAAAACCTGGCAC	
541	CCCATCTCTTTGAAACATCTGGTAATTTGAATTCTAGTGCTCATTATTCATTATTGTTTG	
601	TTTTTATTGTGCTGATTTTTTGGTGATCAAGCCTCAGTCCCCTTCATATTACCCTCTCCTT	
661	TTTAAAAATTACGTGTGCACAGAGAGGTACCTTTTTTCAGGACATTGCATTTTTCAGGCTT	
721	GTGGTGATAAATAAGATCGACCAATGCAAGTGTTTCATAATGACTTTCCAATTGGCCCTGA	
781	TGTTCTAGCATGTGATTACTTCACTCCTGGACTGTGACTTTCAGTGGGAGATGGAAGTTT	
841	TTCAAGAACTGAACTGTGGAAAAATGACCTTTTCCTTAACTTGAAGCTACTTTTAAATTT	
901	TTGAGGGTCTGGACCAAAAGAAGAGGAATATCAGGTTGAAGTCAAGATGACAGATAAGGT	
961	GAGAGTAATGACTAACTCCAAAGATGGCTTCACTGAAGAAAAGGCATTTTAAGATTTTTT	
1021	AAAAATCTTGTCAGAAGATCCCAGAAAAGTTCTAATTTTCATTAGCAATTAATAAAGCTA	
1081	TACATGCAGAAATGAATACAACAGAACTGCTCTTTTGTATTTTATTTGTACTTTTGG	
1141	CCTGGGATATGGGTTTTTAAATGGACATTGTCTGTACCAGCTTCATTAAAATAAACAATAT	
1201	TTGTCAAAAATCGTACTAATGCTTATTTTATTTTAAATGTATAGAAAGAAAAAAATGCCT	
1261	AAAATAAGGTTTTCTTGCATAAATACTGGAAATTGCACATGGTACAAAAAAAATGCCT	
1321	AAATTACTGTACAGGGATGATGTTAATGACTTTGGAGCACTGAAAGTTACTGAAGTGCCT	
1381	TCTGAATCAAGGATTTAATTAAGGCCACAATACCTTTTTAATACTCAGTGTCTGTTTTT	
1441	- TTAATAAACTTGATATTCCTGATGGTGCATATTTGATACAGGTACCCAATCATGTTGGA	

FIG. 2A

[illegible]

FIG. 2B

008110-49648600

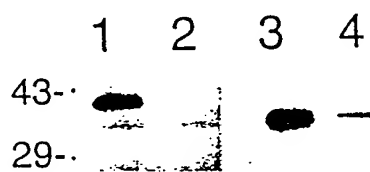


FIG. 3

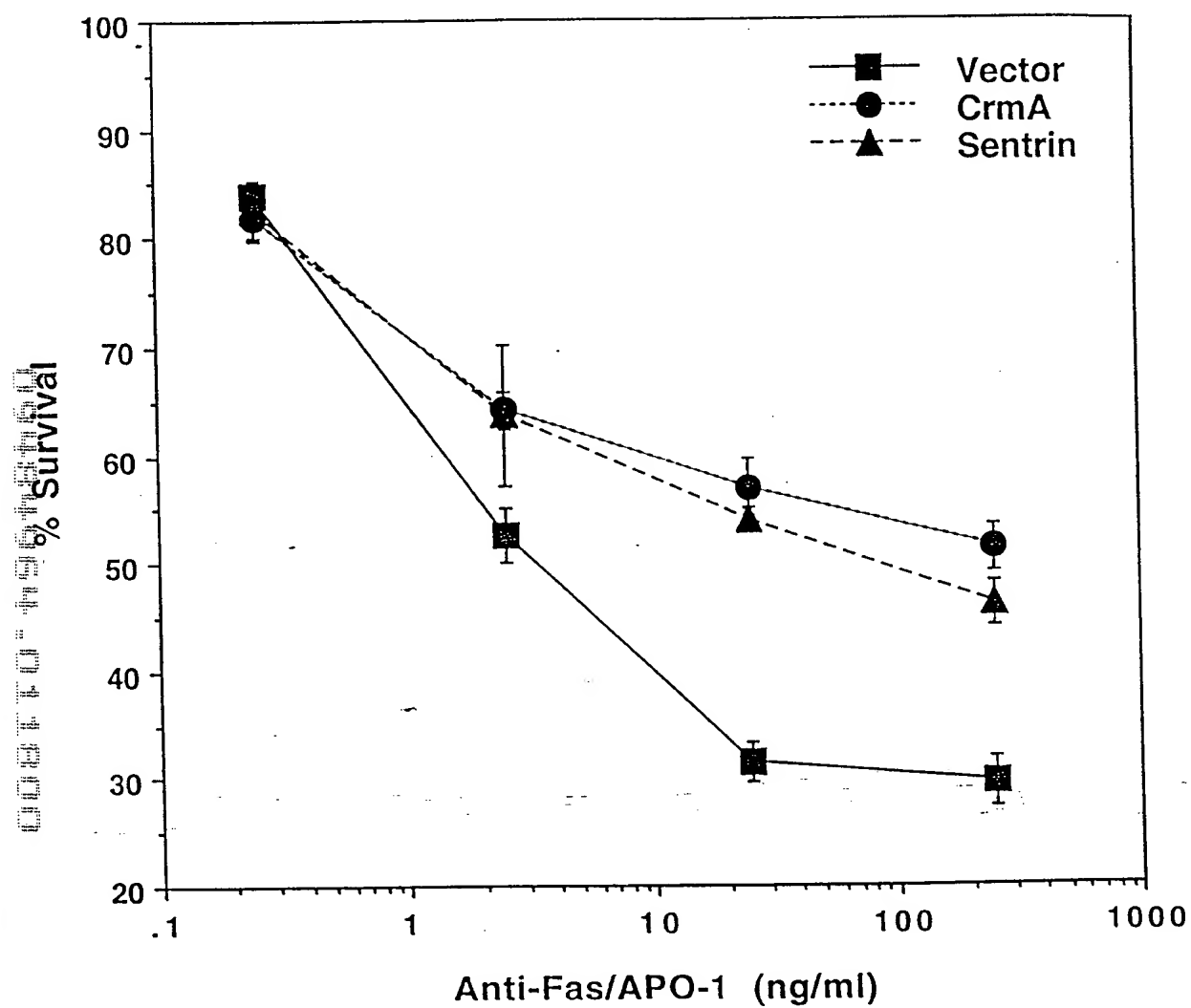


FIG. 4A

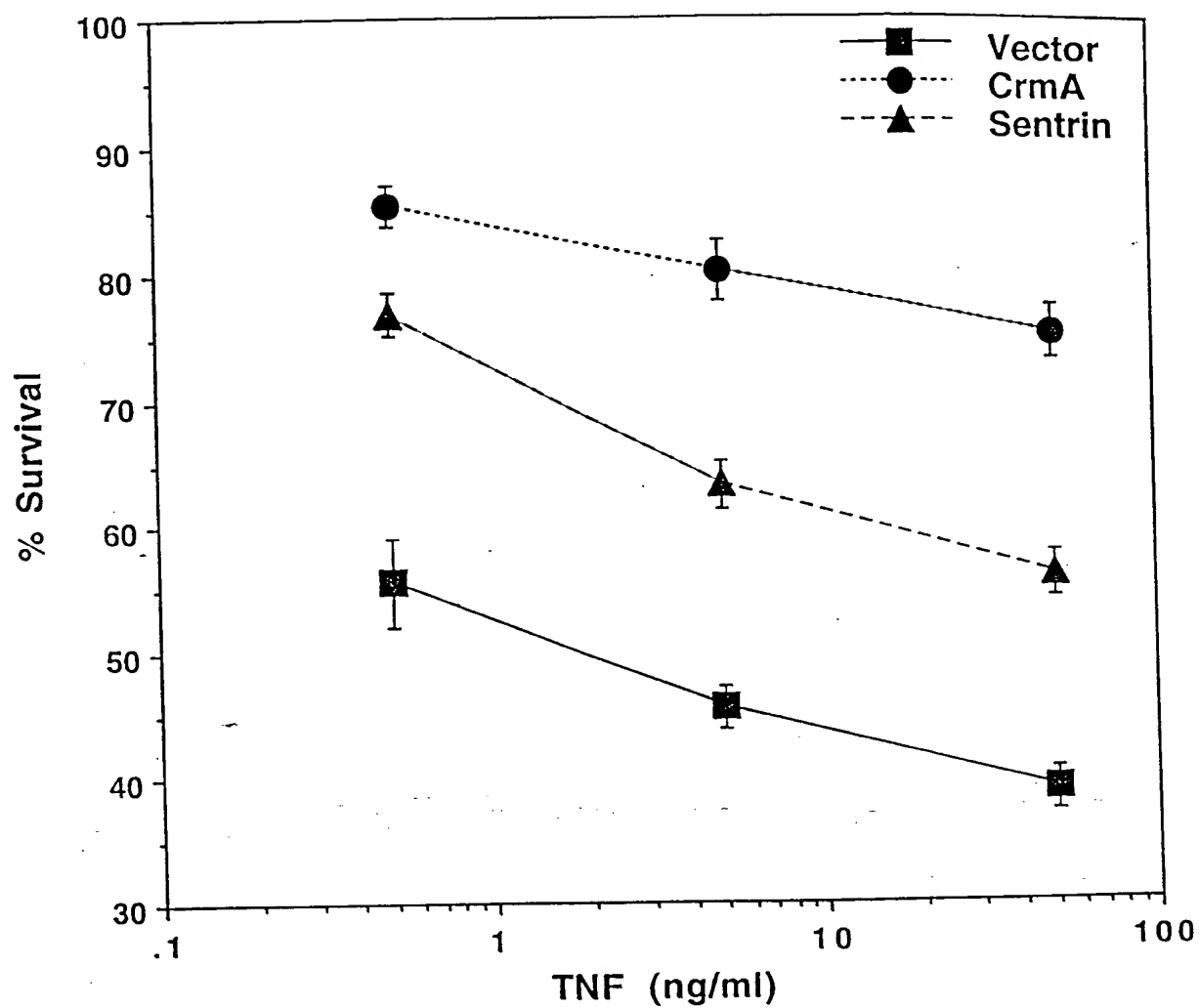


FIG. 4B

00310-19676760

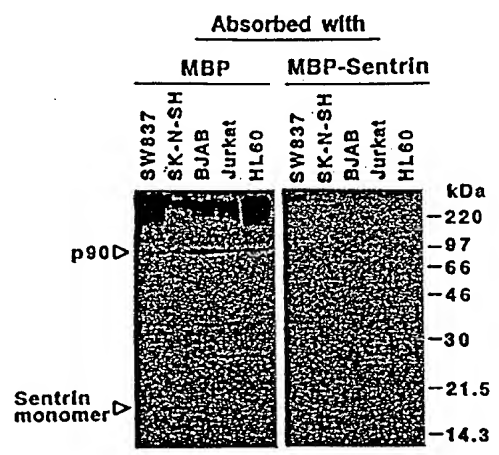


FIG. 5

FIG. 6A

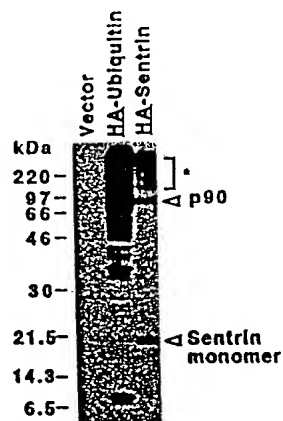


FIG. 6B

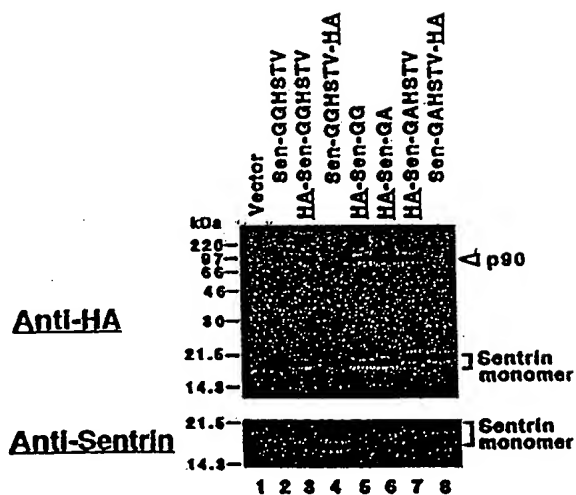


FIG. 7A

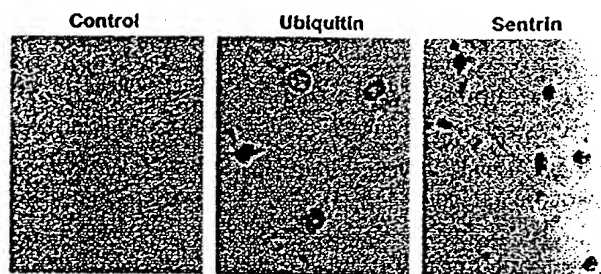
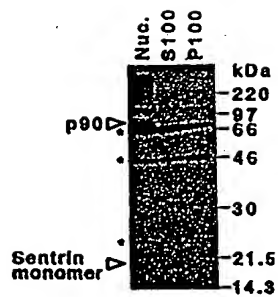


FIG. 7B



Interaction of Sentrin with Ubc9

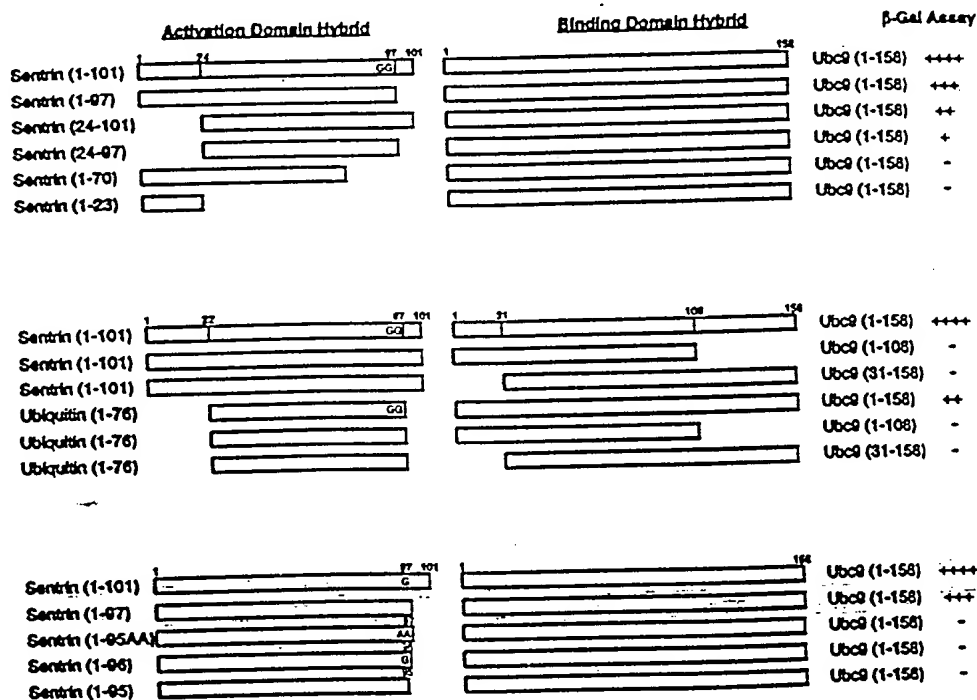


FIG. 8

FIG. 9

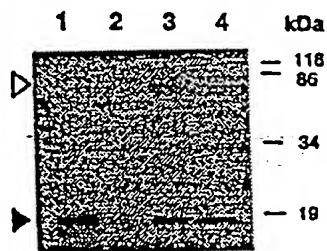
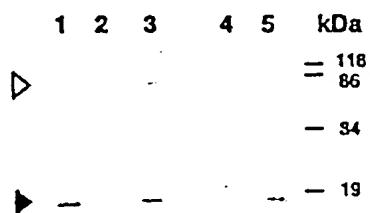


FIG. 10

002710-49648460

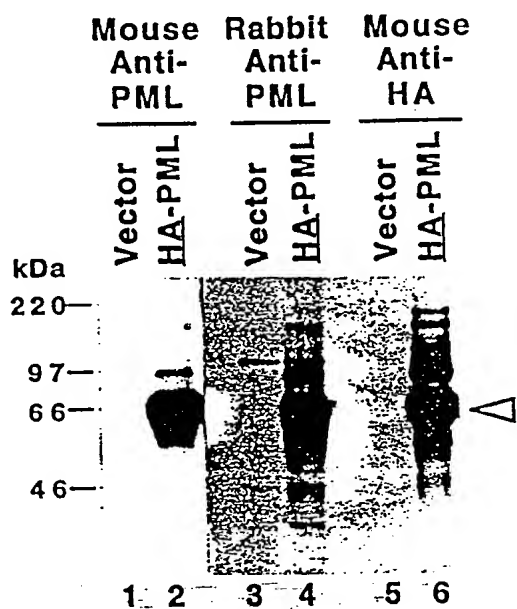


FIG. 11A

002870-43648460

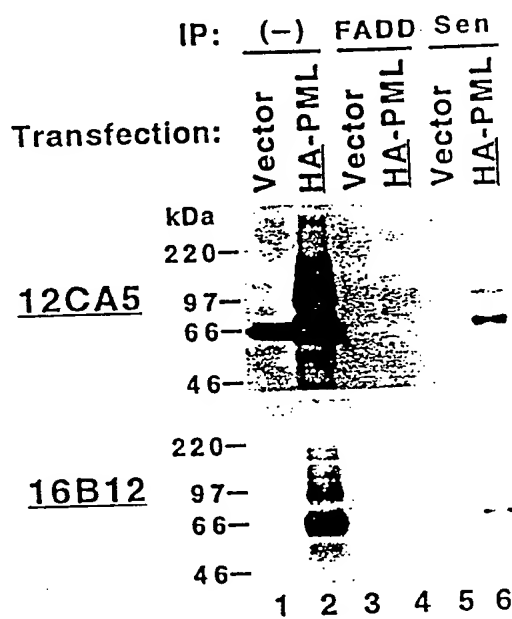


FIG. 11B

008740-19848460

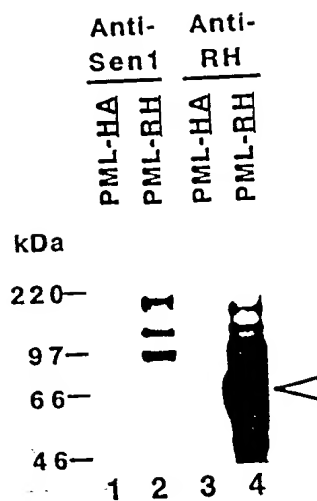


FIG. 11C

Sentrin-1 (1-50)	MSDQEA KPST	EDLGDKKEGE	-YIKLKVIGQD	SSEIHFKVKM	TTHLKKLKE
Sentrin-2 (1-46)	MAD-E-KPK-	E--GVKTENN	DHINKVAGQD	GSVVQFKIKR	HTPLSKLMKA
Sentrin-3 (1-45)	MSE-E-KPK-	E--GVKTEN-	DHINKVAGQD	GSVVQFKIKR	HTSLSKLMKA
NEDD8 (1-29)			MLIKVKTLT	GKEIEDIEP	TDKVERIKER
Ubiquitin (1-29)			MQIFVKTLT	GKTITLLEVP	SDTIENVKAK
Sentrin-1 (51-101)	YCQRQGVPMN	SLRFLFEGQR	IADNHTPKEL	GMEEDVIEV	YQEQTGHS TV
Sentrin-2 (47-95)	YCERQGLSMR	QIRFRFDGQP	INETDTPAQL	EMEDDTIDV	FQQTG VY
Sentrin-3 (46-103)	YCERQGLSMR	QIRFRFDGQP	INETDTPAQL	RMEDEDTIDV	FQQTGVPESSLAGHSF
NEDD8 (30-81)	VEEKEGIPPO	QQRLLYS GKQ	MNDEKTAADY	KILGGSVLHL	VLALRGGGGLR
Ubiquitin (30-76)	IQDKEGIPPD	QQRLLIFAGKQ	LEDGRFLSDY	NIQKESTLHL	VLRLRG

△

▲

FIG. 12

09484964-011800

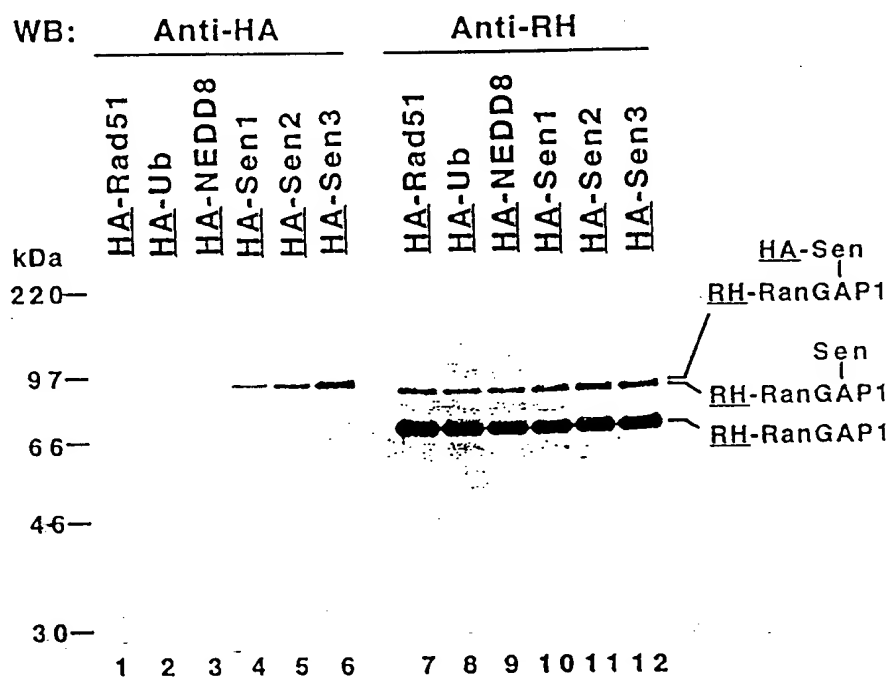


FIG. 13A

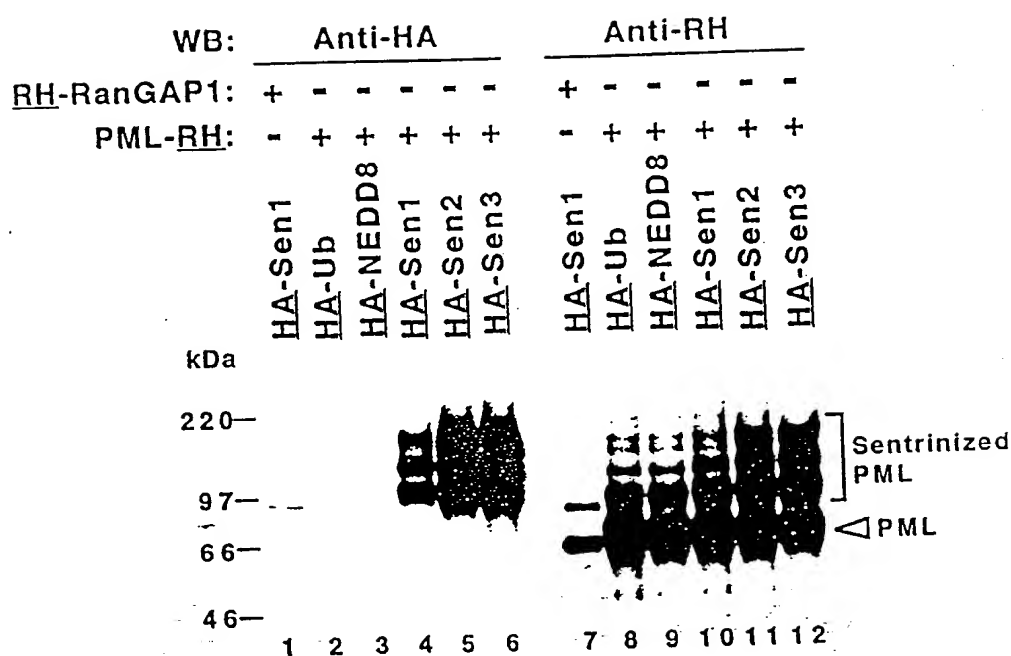


FIG. 13B

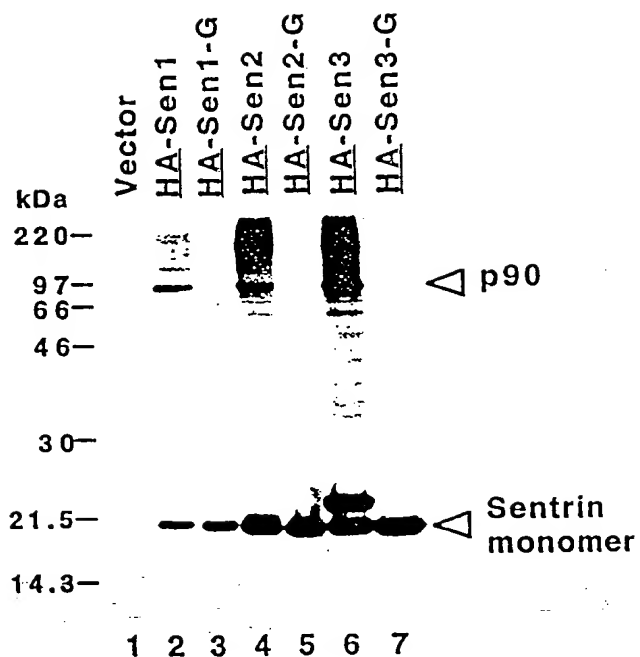


FIG. 13C

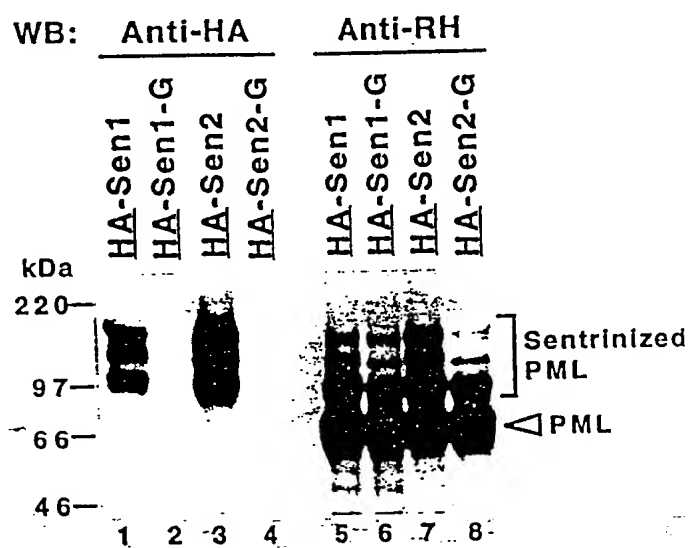


FIG. 13D